

FIGURE 1
Key Data Tables

The screenshot shows a Microsoft Access window titled "Maintenance_Schedules : Table". The window has a menu bar with File, Edit, View, Insert, Format, Records, Tools, Window, and Help. Below the menu is a toolbar with various icons. The main area displays a table with 13 rows and 10 columns. The columns are labeled ID, PIN, Month, FRN_E, FRN_G, FRN_O, FRN_P, FAHD, BHS, and ACC_1. The first row contains the header information. Rows 2 through 13 list months from January to December, with the first row labeled "Interval". The data shows varying values for each month across the different fields. At the bottom of the table, there is a status bar with "Record: 1 of 13".

ID	PIN	Month	FRN_E	FRN_G	FRN_O	FRN_P	FAHD	BHS	ACC_1
1	Interval		0	0	0	0	0	0	0
2		January	0	0	0	0	1	0	0
3		February	0	0	0	0	1	0	0
4		March	0	0	0	0	1	0	0
5		April	0	0	1	0	0	0	0
6		May	0	0	0	0	0	0	0
7		June	0	0	0	0	0	0	0
8		July	0	0	0	0	0	0	0
9		August	0	0	0	0	0	0	0
10		September	1	1	0	1	0	1	1
11		October	0	0	0	0	1	0	0
12		November	0	0	0	0	1	0	0
13		December	0	0	0	0	1	0	0

FIGURE 2
Maintenance Schedules

The screenshot shows a Microsoft Access application window titled "Inside_Reasons : Table". The table has four columns: "ID", "Maint_Codes", "Inside Maintenance Tasks", "Timing", and "Reason". The data includes various maintenance tasks like furnace service, water pipe flushing, and heat pump cleaning, along with their timing and reasons.

ID	Maint_Codes	Inside Maintenance Tasks	Timing	Reason
1	FRN_E	Furnace Annual professional service	annual	Safety & efficiency
2	FRN_G	Furnace Annual professional service	annual	Safety & efficiency
3	FRN_O	Furnace Annual professional service	annual	Safety & efficiency
4	FRN_P	Furnace Annual professional service	annual	Safety & efficiency
5	FAHD	Furnace Replace air filter	monthly during se.	Efficiency & extends us
6	BHS	Baseboard Heating System Flush water pipe	annual	Efficiency & extends us
7	ACC_1	Air Conditioning Replace air filter	monthly during se.	Safety & efficiency
8	ACC_2	Air Conditioning Clean condensate drain	annual	Prevent overflow of water
9	ACC_3	Air Conditioning Clean outside condenser un	annual	Efficiency
10	ACC_4	Air Conditioning Annual professional service	annual	Safety & efficiency
11	ACC_5	Air Conditioning Cover outside condenser un	annual	Extends useful life
12	ACC_6	Air Conditioning Remove cover from outside	annual	Prepare for operation
13	ACR_1	Room Air Conditioner Wash / replace air filter	monthly during se.	Efficiency
14	ACR_2	Room Air Conditioner Cover outside unit	annual	Extends useful life
15	ACR_3	Room Air Conditioner Remove cover from ou	annual	Prepare for operation
16	HP_1	Heat Pump service ???	???	???
17	HP_2	Heat Pump service ???	???	???
18	HP_3	Heat Pump service ???	???	???
19	HP_4	Heat Pump service ???	???	???
20	HVACD	Air Conditioning Backflow ductwork	annual	Removes allergens and
21	WH_E1	Water Heater Annual professional service	annual	Safety & efficiency
22	WH_E2	Water Heater Drain several gallons of water	2 months	Sweeps out sediments,
23	WH_G1	Water Heater Annual professional service	annual	Safety & efficiency
24	WH_G2	Water Heater Drain several gallons of water	2 months	Sweeps out sediments,
25	WH_O1	Water Heater Annual professional service	annual	Safety & efficiency
26	WH_O2	Water Heater Drain several gallons of water	2 months	Sweeps out sediments,
27	WH_P1	Water Heater Annual professional service	annual	Safety & efficiency
28	WH_P2	Water Heater Drain several gallons of water	2 months	Sweeps out sediments,
29	RF_WO1	Refrigerator Clean back heat exchanger grill	6 months	Efficiency & extends us
30	RF_WO2	Refrigerator Vacuum under refrigerator	annual	Efficiency & extends us
31	RF_W1	Refrigerator Clean back heat exchanger grill	6 months	Efficiency & extends us

FIGURE 3

Descriptions of Maintenance Tasks

The screenshot shows a Microsoft Access application window with a table titled "Outside Reasons : Table". The table has four columns: "ID", "Main_Codes", "Outside Maintenance Tasks", and "Reason". There are 47 records listed. The "Main_Codes" column contains codes like ATTV, PL_1 through PL_4, SPTC, AUS_1 through AUS_2, RFG, DKG_1 through DKG_2, SWS_1 through SWS_2, BSMT, EAV, GAR, WW_1 through WW_2, WSD_1 through WSD_3, ROF_1 through ROF_2, OWS_1 through OWS_2, OLIT, LWN_1 through LWN_4, and DWY_1. The "Outside Maintenance Tasks" column describes various tasks such as "Check attic vents", "Annual septic service", "Turn systems on", "Shut down & drain water", "Clean gutters", "Clean and apply stain & sealant", "Check structural integrity", "Replace screens with storm windows", "Replace storm windows with screen", "Remove debris from basement walls", "Clean build-up from around eaves", "Oil hinges and tracks", "Inspect for ground touching sid", "Inspect for weathering", "Inspect for re-painting", "Inspect for shingle loss", "Inspect for possible replacement", "Shutdown outside water", "Turn on outside water", "Replace outside light bulbs", "Spring ???", "Summer ???", "Fall ???", and "Arrange for snow plow service". The "Timing" column indicates the frequency of each task, mostly marked as "annual" or "2 years". The "Reason" column provides a brief description for each task.

ID	Main_Codes	Outside Maintenance Tasks	Timing	Reason
1	ATTV	Attic Check attic vents	annual	Efficiency
92	PL_1	Pool ???	???	???
93	PL_2	Pool ???	???	???
94	PL_3	Pool ???	???	???
95	PL_4	Pool ???	???	???
96	SPTC	Septic System Annual septic service	annual	Performance
97	AUS_1	Automatic Sprinklers Turn systems on	annual	Setup operations for Summer
98	AUS_2	Automatic Sprinklers Shut down & drain water	annual	Prevent lines from bursting
99	RFG	Roof Clean gutters	annual	Remove debris to insure safety
100	DKG_1	Decking Clean and apply stain & sealant	2 years	Extends useful life
101	DKG_2	Decking Check structural integrity	2 years	Safety
102	SWS_1	Windows Replace screens with storm windows	annual	Preparation for Winter
103	SWS_2	Windows Replace storm windows with screen	annual	Preparation for Summer
104	BSMT	Basement Remove debris from basement walls	annual	Prevent build-ups leading to flooding
105	EAV	Roof Clean build-up from around eaves	annual	Prevent build-ups leading to flooding
106	GAR	Garage Doors Oil hinges and tracks	annual	Efficiency & extends useful life
107	WW_1	Well Water ???	???	Extends useful life
108	WW_2	Well Water ???	???	???
109	WSD_1	Wood Siding Inspect for ground touching siding	annual	Prevents rot
110	WSD_2	Wood Siding Inspect for weathering	annual	Extends useful life
111	WSD_3	Wood Siding Inspect for re-painting	???	Extends useful life
112	ROF_1	Roof Inspect for shingle loss	annual	Prevents damage from leaking
113	ROF_2	Roof Inspect for possible replacement	5 years	Prevents damage from leaking
114	OWS_1	Outside Water Spigots Shutdown outside water	annual	Prevents potential pipe freezing
115	OWS_2	Outside Water Spigots Turn on outside water	annual	Preparation for Summer
116	OLIT	Outside Lighting Replace outside light bulbs	annual	Avoids having to change bulbs
117	LWN_1	Spring ???	???	???
118	LWN_2	Summer ???	???	???
119	LWN_3	Summer ???	???	???
120	LWN_4	Fall ???	???	???
121	DWY_1	Driveway Arrange for snow plow service	annual	Preparation for Winter

FIGURE 4**Descriptions of Maintenance Tasks**

The screenshot shows a Microsoft Access window titled "Other Reasons : Table". The table contains 11 records with the following data:

ID	Maint_Codes	Other Maintenance Tasks	Timing	Reason
138	HISP_1	House Inspection Annual inspection	annual	Extends useful life, catches problems early
139	HISP_2	House Inspection Professional inspection se 3 years	every 3 years	Extends useful life, catches problems early
140	EAUD	Energy Audit Conduct energy audit	5 years	Identifies potential cost savings
141	MVER	Utilities Check meters versus bills (electric, water, gas)	annual	Ensures proper billings
142	ENR	Energy Costs Check market rates for electric annual	annual	Identifies potential cost savings
143	MGR	Mortgage Rates Check market rates for mor annual	annual	Identifies potential cost savings
144	INR	Insurance Rates Check insurance coverages annual	annual	Identifies potential cost savings
145	TELR	Telephone Rates Check market rates for tele annual	annual	Identifies potential cost savings
146	GARR	Garbage Rates Check market rates for garb. annual	annual	Identifies potential cost savings
147	TAXR	Tax Rates Check home tax rates versus ma 5 years	5 years	Identifies potential cost savings
148	CGD	Charitable Donations Evaluate possible goor annual	annual	Potential tax benefits

FIGURE 5
Descriptions of Maintenance Tasks

ID	User_Name	Password	FRN_E	FRN_G	FRN_O	FRN_P	FAHD	BHS	ACC
1	JLStest1		0	0	1	0	0	0	1
2	JLStest2		0	1	0	0	0	0	0
3	JLStest3		0	0	1	0	0	0	0
4	JLStest4		1	1	0	1	1	0	1
5	JLStest5		1	1	0	1	0	0	0
6	JLStest6		1	1	1	1	1	1	1
7	JLStest7		1	1	1	1	0	0	0
8	JLStest10		0	0	0	0	0	0	0
9	jls2		0	0	0	0	0	0	0
10	jls4		0	0	1	0	0	0	1
11	jls2		1	0	0	0	0	0	1
12			0	0	0	0	0	0	0
13	jls6		0	0	0	0	0	0	0
14	tidbit		0	0	1	0	0	0	1
15	hom71		1	0	0	0	0	0	0
16	jls11		1	0	0	0	0	0	0
17			0	0	0	0	0	0	0
18	jls14		1	0	0	0	0	0	0
19			0	0	0	0	0	0	0
20			0	0	0	0	0	0	0
21	jls20		0	0	1	0	1	1	1
22	Demo	Demo	1	0	0	0	1	0	0
23	jls	joel	0	0	0	0	0	0	0
24	jls	joel	0	0	0	0	0	0	0
25	joel lee	muddha	8	0	0	0	0	0	0
26	1132 sat	singer	0	0	1	0	0	0	1
27	tidlimis	bitimus	0	0	1	0	0	0	0
28	dododo	do	1	0	0	0	0	0	0
29	joe	mama	1	1	1	1	0	0	0
30	236Sun	ohbaby1	2	2	1	1	0	0	0
31	236Sun	ohbaby1	2	2	1	1	0	0	0

FIGURE 6**User Name and Features**

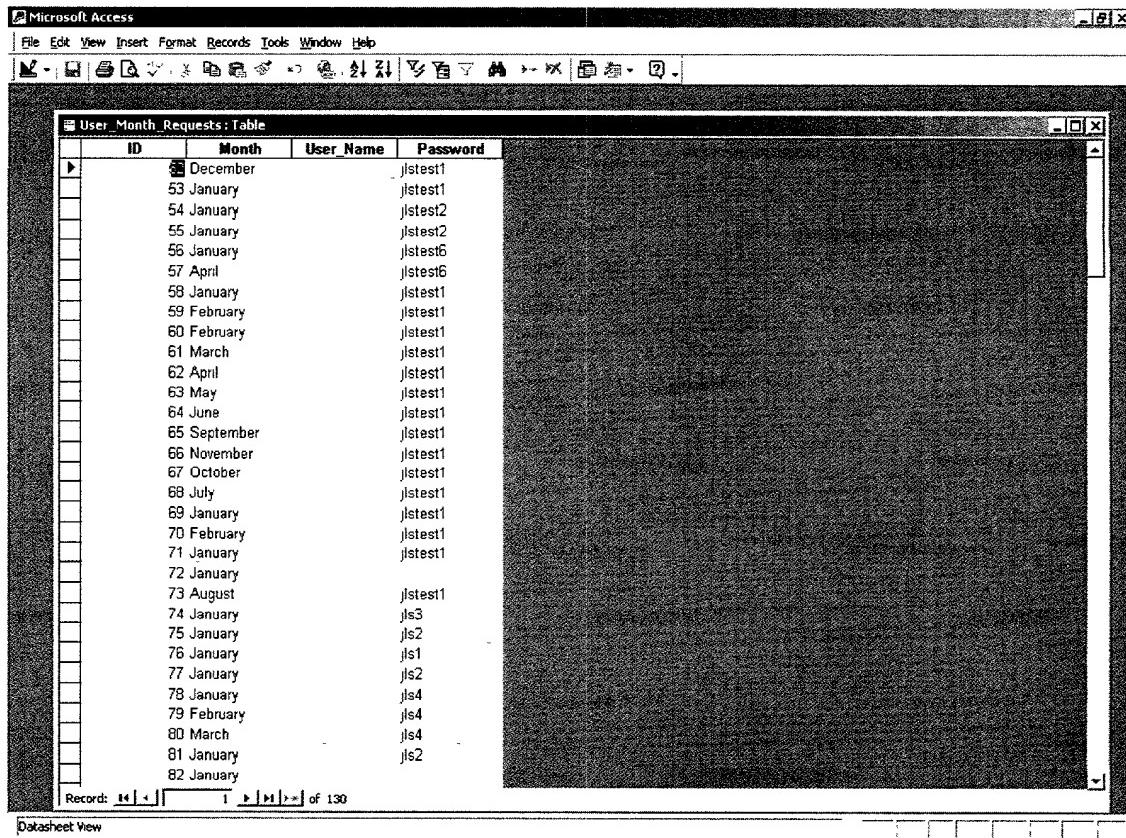
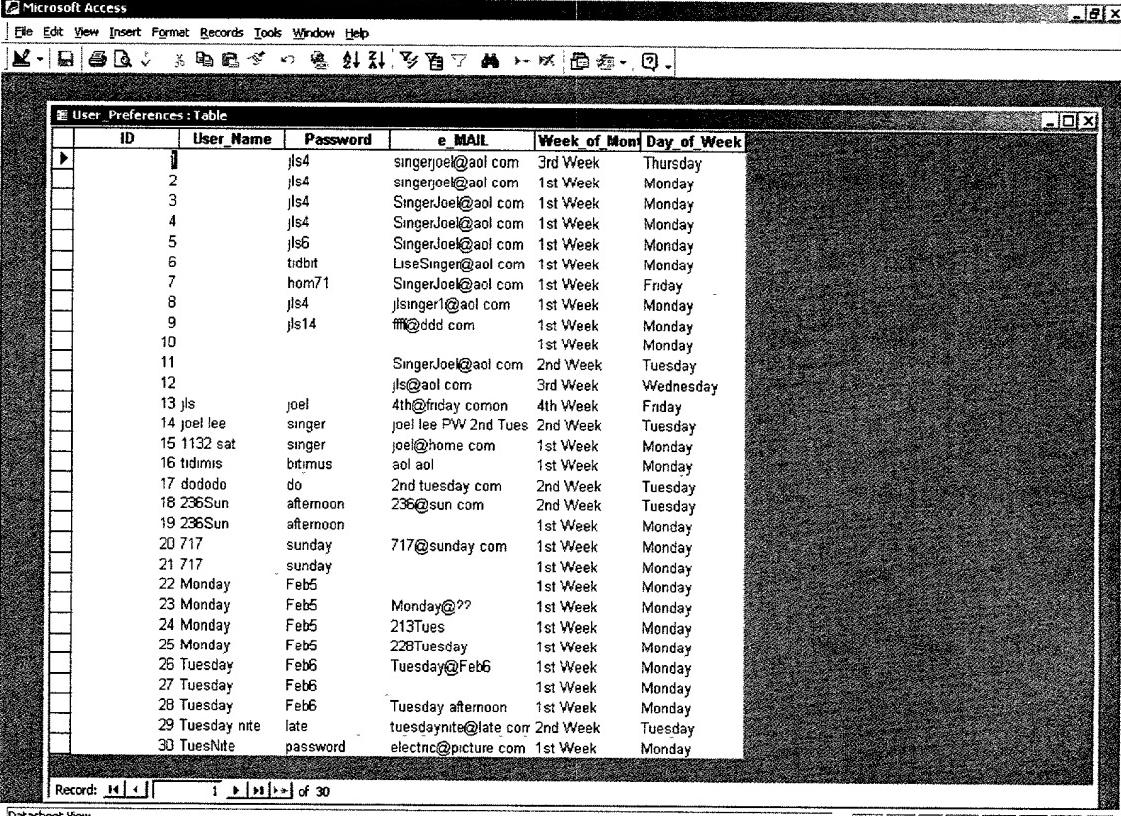


FIGURE 7

User Period Request



The screenshot shows a Microsoft Access application window titled "User Preferences : Table". The window displays a grid of data with the following columns: ID, User_Name, Password, e_MAIL, Week_of_Month, and Day_of_Week. The data consists of 30 records, each containing a unique ID, a user name, a password, an email address, a week of the month, and a day of the week. The data is as follows:

ID	User_Name	Password	e_MAIL	Week_of_Month	Day_of_Week
1	jls4	singerjoe@aol.com	3rd Week	Thursday	
2	jls4	singerjoe@aol.com	1st Week	Monday	
3	jls4	SingerJoe@aol.com	1st Week	Monday	
4	jls4	SingerJoe@aol.com	1st Week	Monday	
5	jls6	SingerJoe@aol.com	1st Week	Monday	
6	tidbit	UseSinger@aol.com	1st Week	Monday	
7	hom71	SingerJoe@aol.com	1st Week	Friday	
8	jls4	jlsinger1@aol.com	1st Week	Monday	
9	jls14	fm@ddd.com	1st Week	Monday	
10			1st Week	Monday	
11		SingerJoe@aol.com	2nd Week	Tuesday	
12		jls@aol.com	3rd Week	Wednesday	
13	jls	joel	4th@friday.comon	4th Week	Friday
14	joel lee	singer	joel lee PW 2nd Tues	2nd Week	Tuesday
15	1132 sat	singer	joel@home.com	1st Week	Monday
16	tidimis	bttimus	aol@aol	1st Week	Monday
17	dododo	do	2nd tuesday.com	2nd Week	Tuesday
18	236Sun	afternoon	236@sun.com	2nd Week	Tuesday
19	236Sun	afternoon		1st Week	Monday
20	717	sunday	717@sunday.com	1st Week	Monday
21	717	sunday		1st Week	Monday
22	Monday	Feb5		1st Week	Monday
23	Monday	Feb5	Monday@??	1st Week	Monday
24	Monday	Feb5	213Tues	1st Week	Monday
25	Monday	Feb5	228Tuesday	1st Week	Monday
26	Tuesday	Feb6	Tuesday@Feb6	1st Week	Monday
27	Tuesday	Feb6		1st Week	Monday
28	Tuesday	Feb6	Tuesday afternoon	1st Week	Monday
29	Tuesday nite	late	uesdaynite@late.com	2nd Week	Tuesday
30	TuesNite	password	electnc@picture.com	1st Week	Monday

Record: 14 | 1 | 1 > | >> of 30

Datasheet View

FIGURE 8**User Preferences**

Microsoft Access

File Edit View Insert Format Records Tools Window Help

ID	R_F_L_in	R_M_M_in	FRN_E	FRN_G	FRN_O	FRN_P	FAHD	BHS	ACC
1	FRN_E	FRN_E	1						
2	FRN_G	FRN_G		1					
3	FRN_O	FRN_O			1				
4	FRN_P	FRN_P				1			
6	FAHD	FAHD					1		
7	BHS	BHS						1	
8	ACC_1	ACC_1							1
9	ACC_2	ACC_2							
10	ACC_3	ACC_3							
11	ACC_4	ACC_4							
12	ACC_5	ACC_5							
13	ACC_6	ACC_6							
14	ACR_1	ACR_1							
15	ACR_2	ACR_2							
16	ACR_3	ACR_3							
17	HP_1	HP_1							
18	HP_2	HP_2							
19	HP_3	HP_3							
20	HP_4	HP_4							
21	HVACD	HVACD							
22	WH_E1	WH_E1							
23	WH_E2	WH_E2							
24	WH_G1	WH_G1							
25	WH_G2	WH_G2							
26	WH_O1	WH_O1							
27	WH_O2	WH_O2							
28	WH_P1	WH_P1							
29	WH_P2	WH_P2							
30	RF_W01	RF_W01							
31	RF_W02	RF_W02							
32	RF_W1	RF_W1							

Record: 14 | 1 | 1 > | 1 | 1 < | 1 of 90 | 1 |

Datasheet View

FIGURE 9**“Flipper”**

ID	R_F_L_out	R_M_M_out	ATTIV	PL_1	PL_2	PL_3	PL_4	SPTC	AUS
1	ATTIV	ATTIV	1						
93	PL_1	PL_1		1					
94	PL_2	PL_2			1				
95	PL_3	PL_3				1			
96	PL_4	PL_4					1		
97	SPTC	SPTC						1	
98	AUS_1	AUS_1							1
99	AUS_2	AUS_2							
100	RFG	RFG							
101	DKG_1	DKG_1							
102	DKG_2	DKG_2							
103	SWS_1	SWS_1							
104	SWS_2	SWS_2							
105	BSMT	BSMT							
106	EAV	EAV							
107	GAR	GAR							
108	WW_1	WW_1							
109	WW_2	WW_2							
110	WSD_1	WSD_1							
111	WSD_2	WSD_2							
112	WSD_3	WSD_3							
113	ROF_1	ROF_1							
114	ROF_2	ROF_2							
115	OWS_1	OWS_1							
116	OWS_2	OWS_2							
117	OLIT	OLIT							
118	LWN_1	LWN_1							
119	LWN_2	LWN_2							
120	LWN_3	LWN_3							
121	LWN_4	LWN_4							
122	DWY_1	DWY_1							

FIGURE 10**“Flipper”**

A screenshot of Microsoft Access showing a table named "R_F_L_oth_flip". The table has 11 records, each consisting of two entries. The columns are labeled ID, R_F_L_oth, R_M_M_oth, HISP_1, HISP_2, EAUD, MVER, ENR, MGR, and INR. The data is as follows:

ID	R_F_L_oth	R_M_M_oth	HISP_1	HISP_2	EAUD	MVER	ENR	MGR	INR
139	HISP_1	HISP_1		1					
140	HISP_2	HISP_2			1				
141	EAUD	EAUD				1			
142	MVER	MVER					1		
143	ENR	ENR						1	
144	MGR	MGR							1
145	INR	INR							
146	TELR	TELR							
147	GARR	GARR							
149	TAXR	TAXR							
150	CGD	CGD							

FIGURE 11

“Flipper”

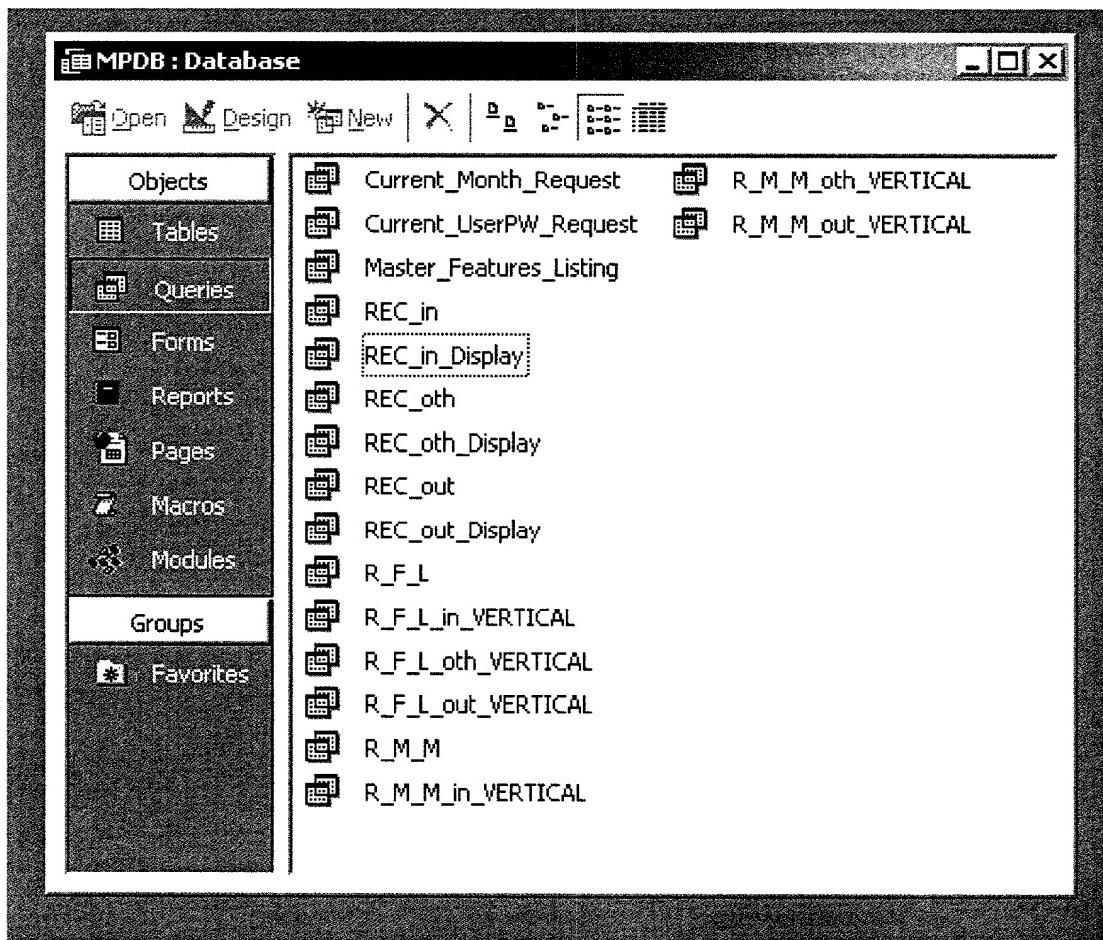


FIGURE 12

Key Queries

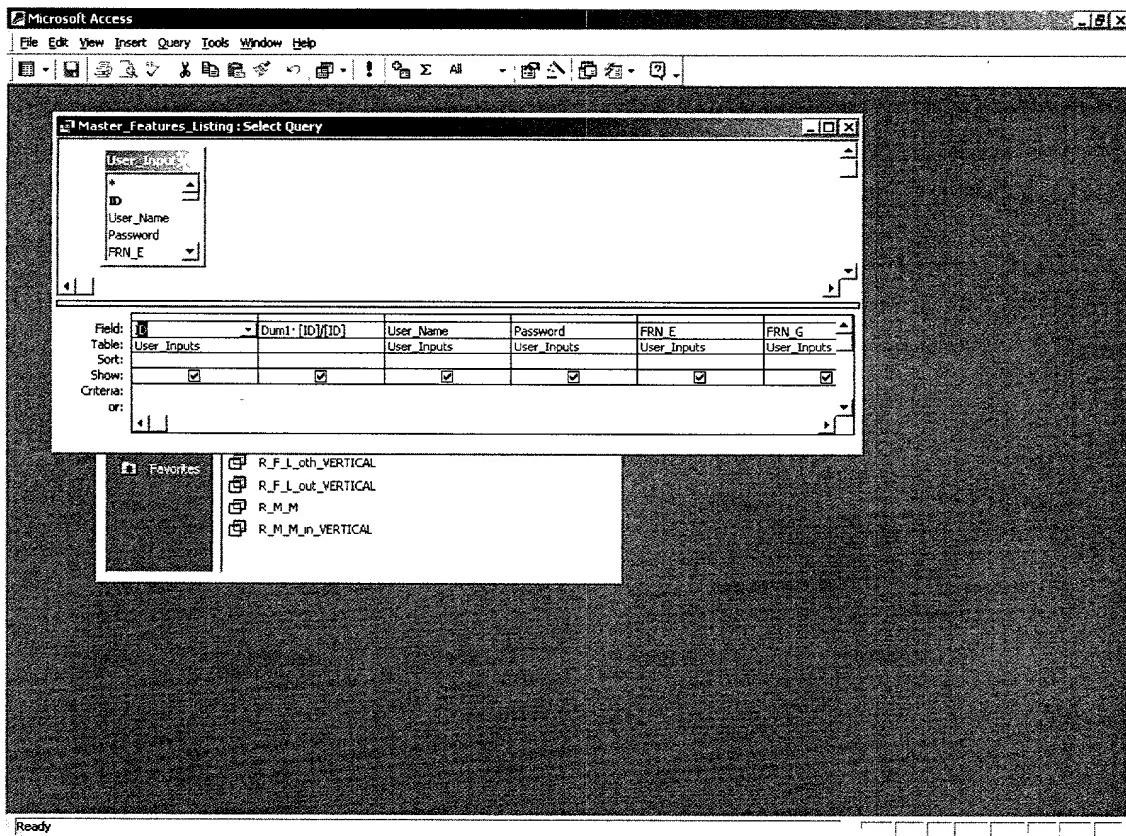


FIGURE 13
Master Features List

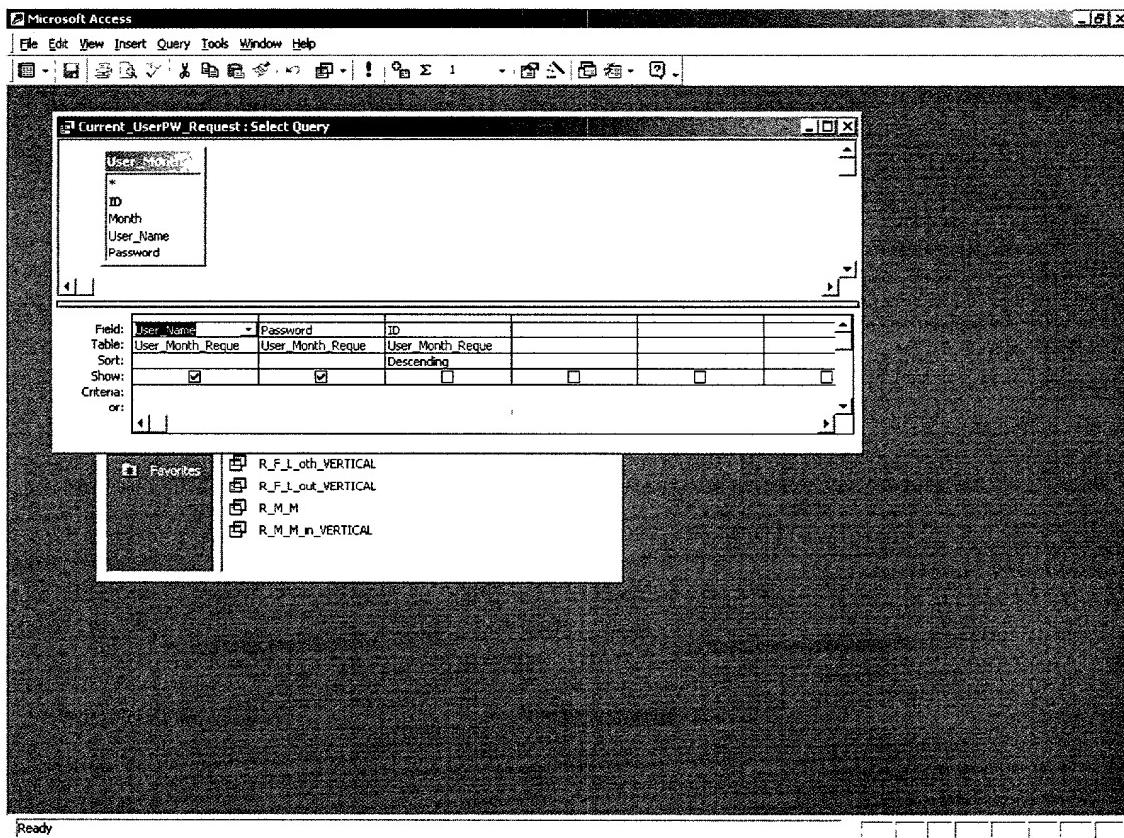


FIGURE 14

Current User

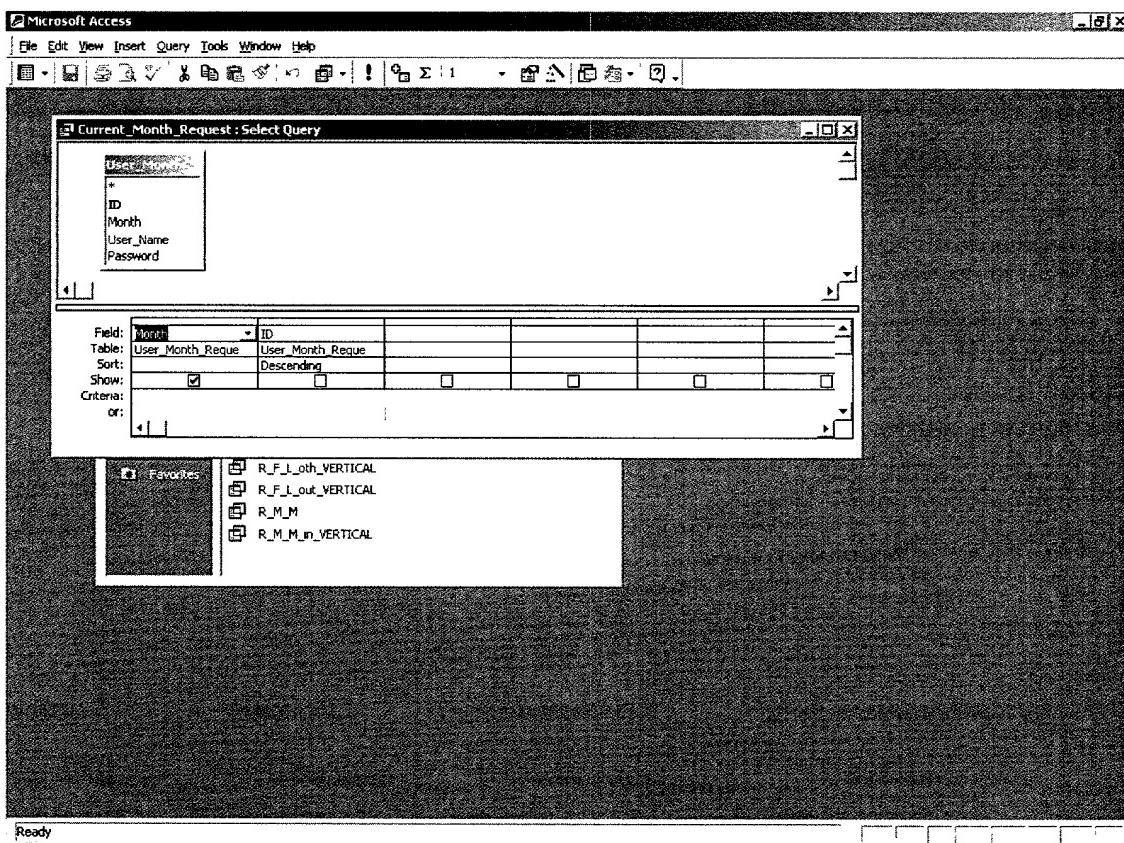


FIGURE 15
Current Period

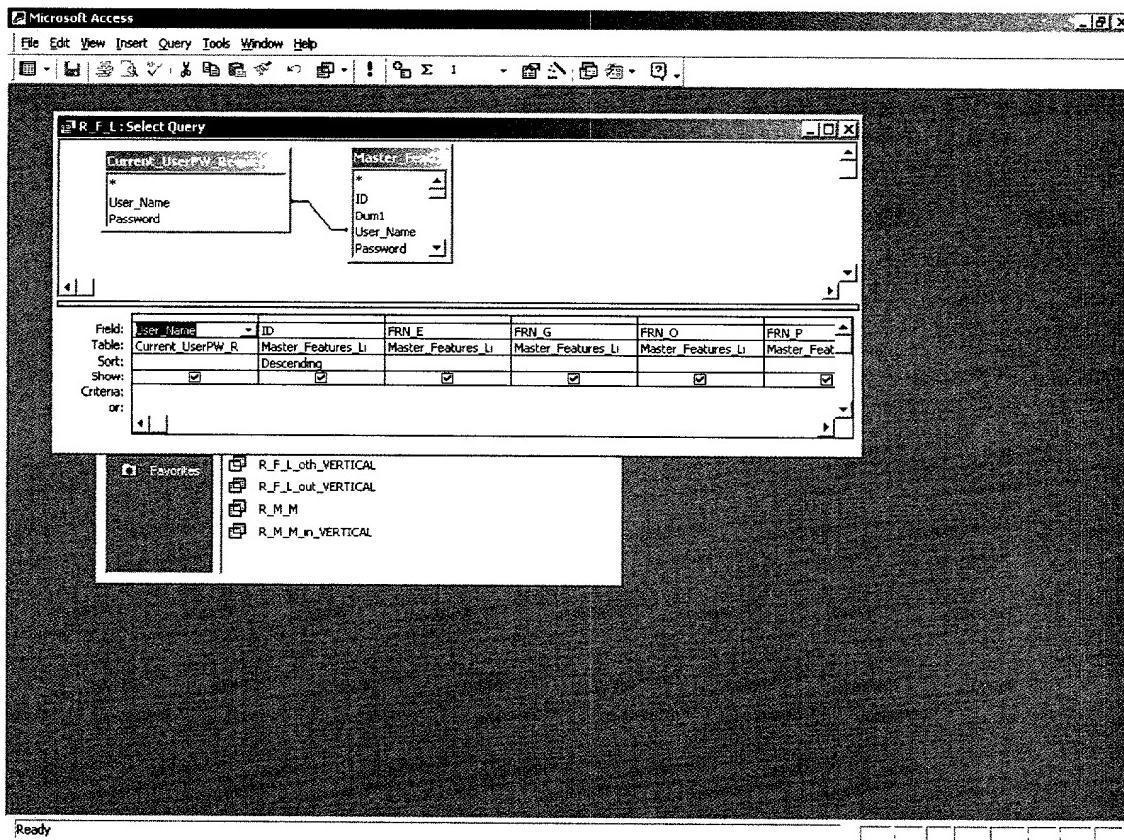


FIGURE 16
Features of Current User

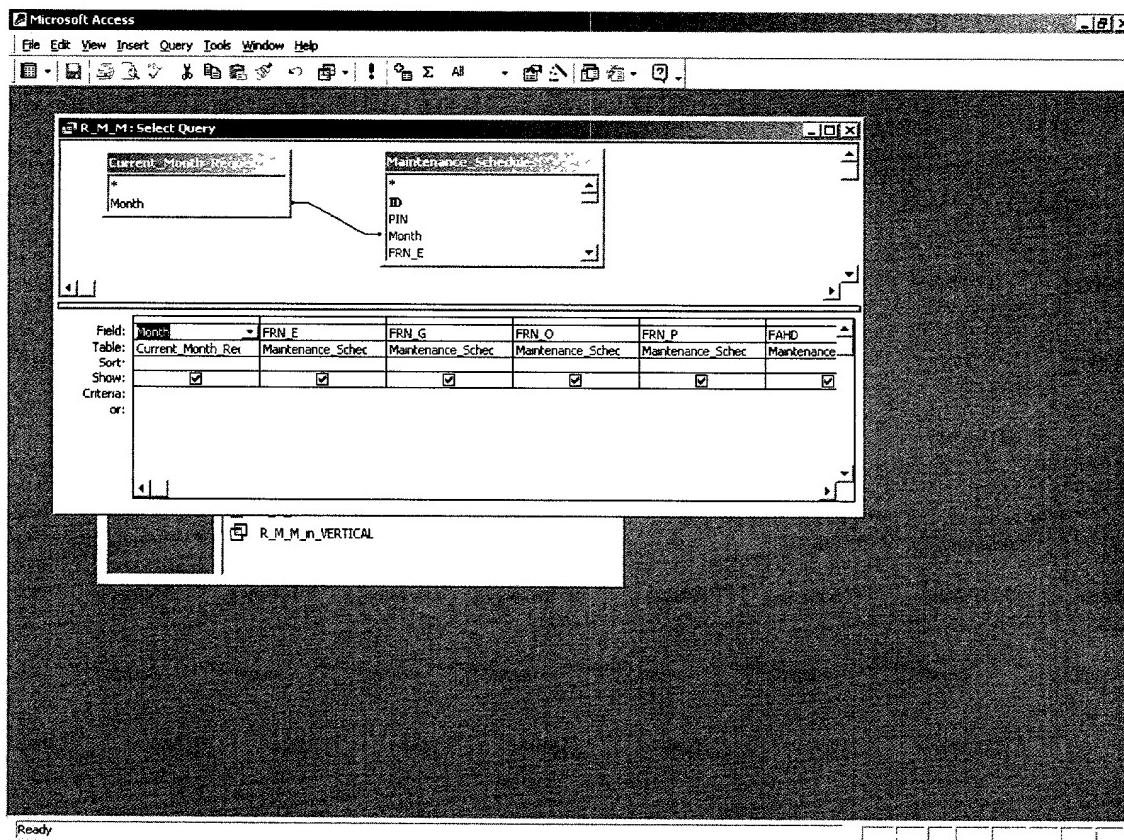


FIGURE 17
Tasks Due for Current Period

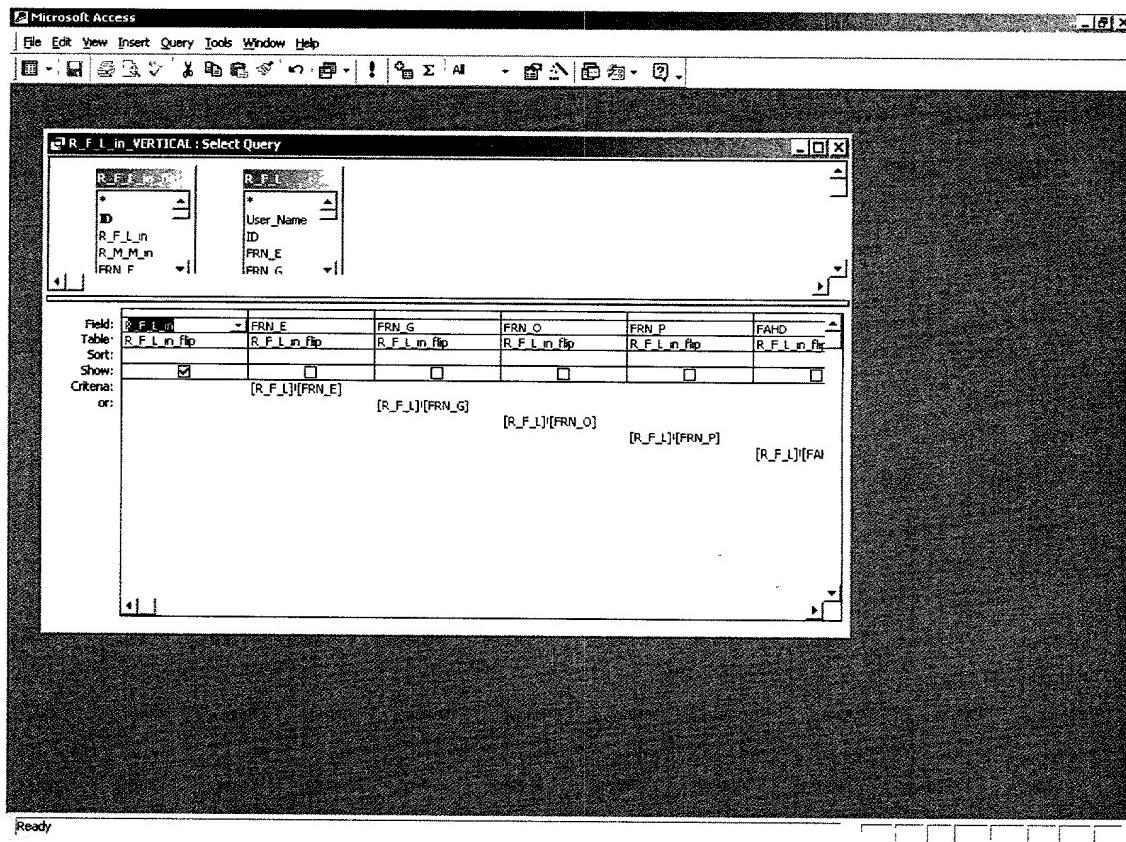


FIGURE 18
“Flipped Data”

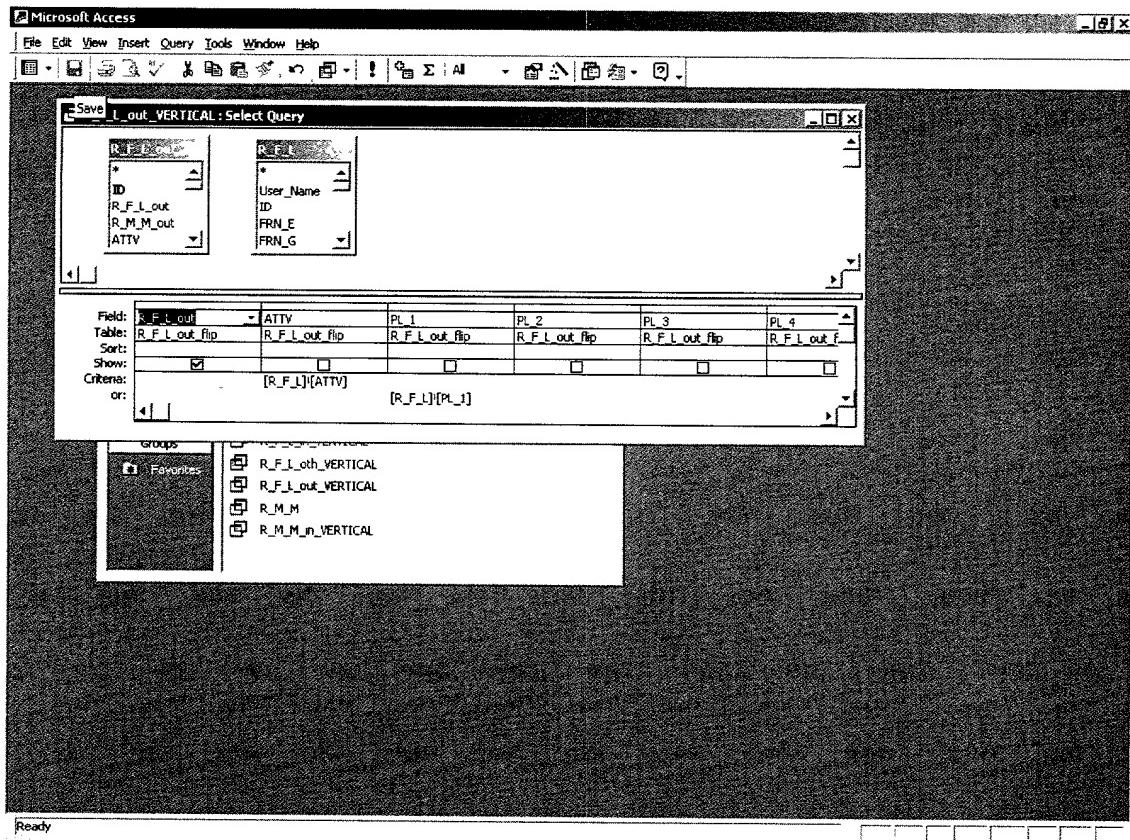


FIGURE 19
“Flipped Data”

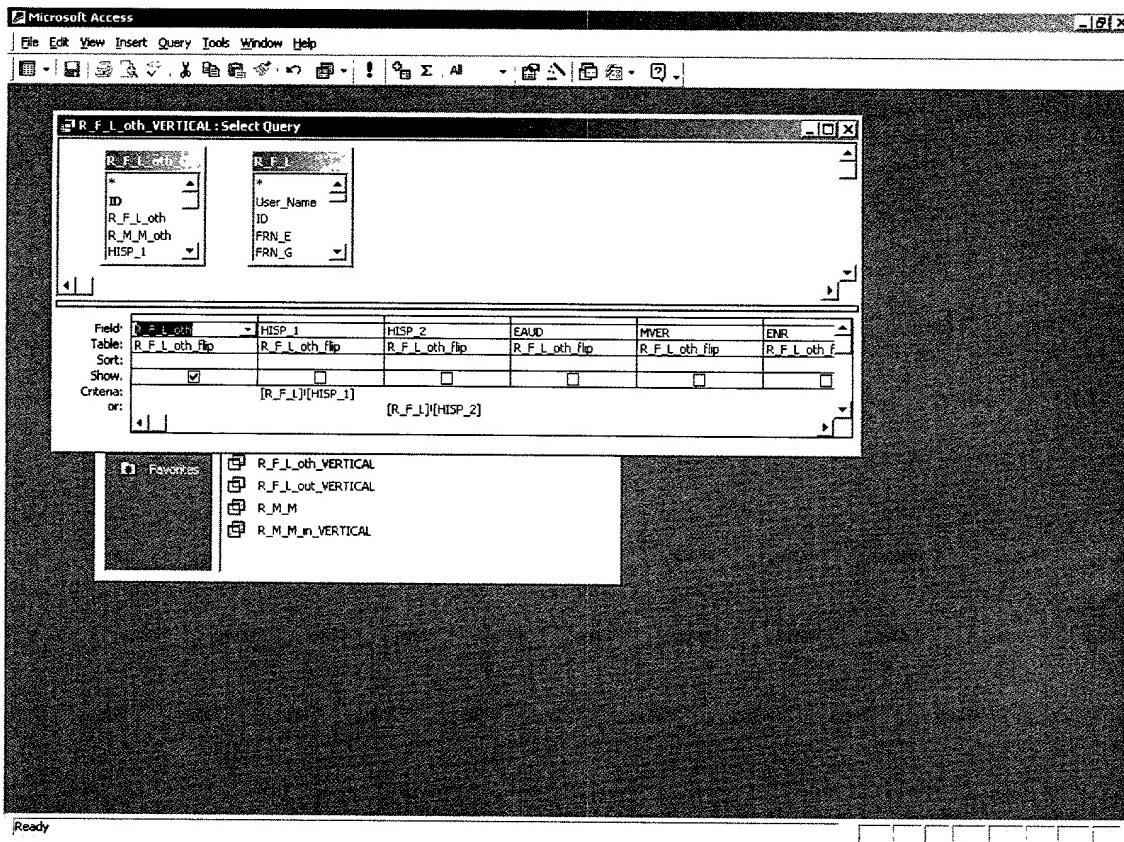


FIGURE 20
“Flipped Data”

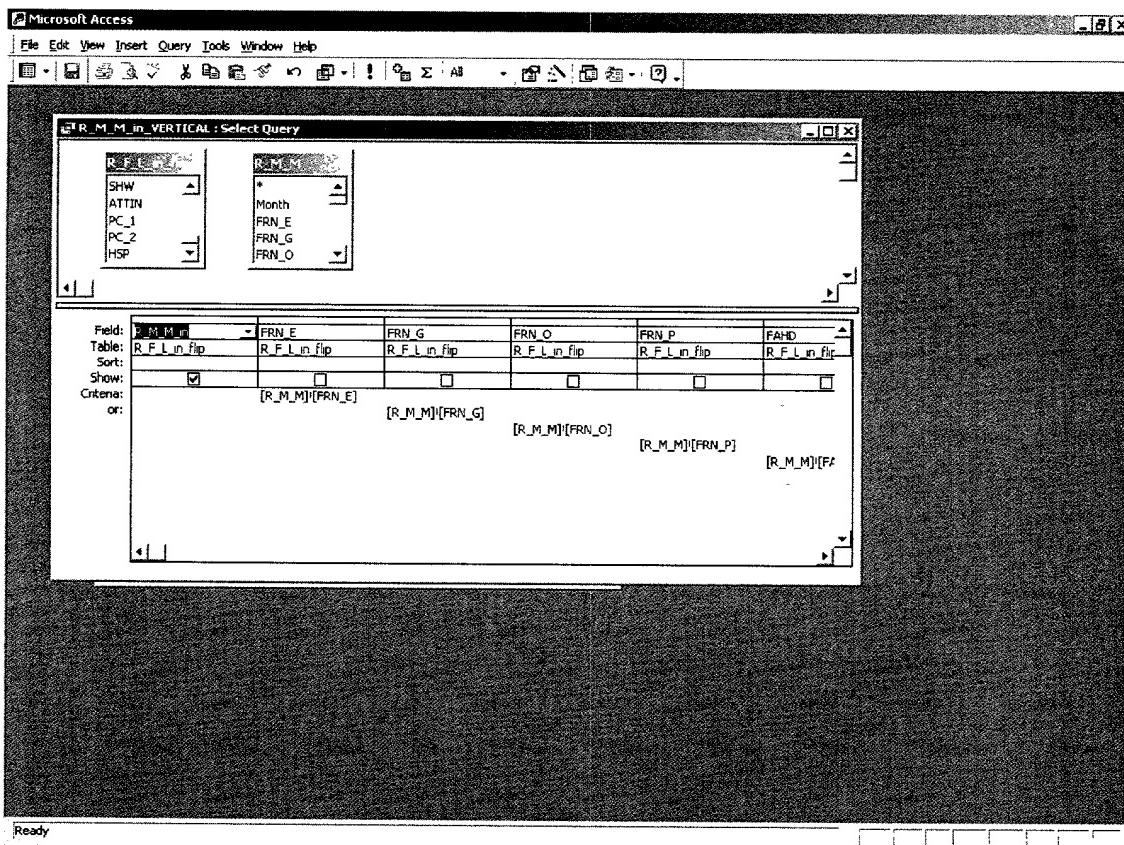


FIGURE 21
“Flipped Data”

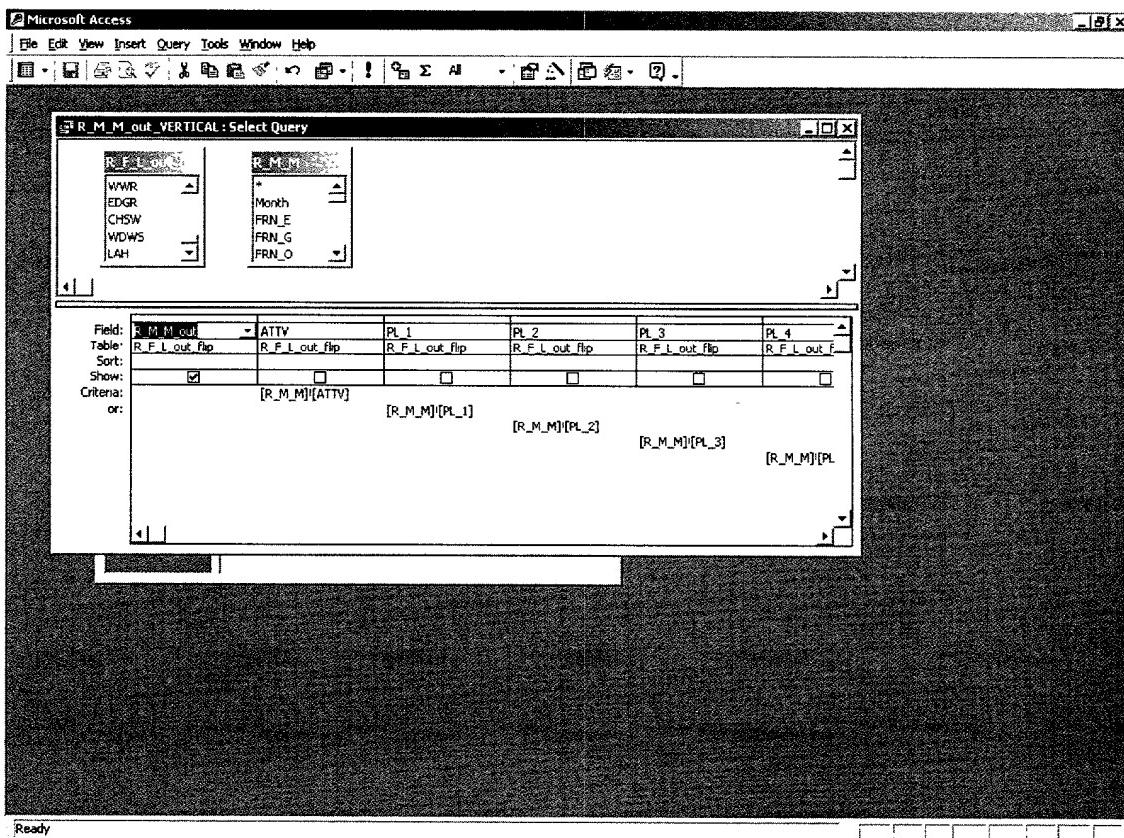


FIGURE 22

“Flipped Data”

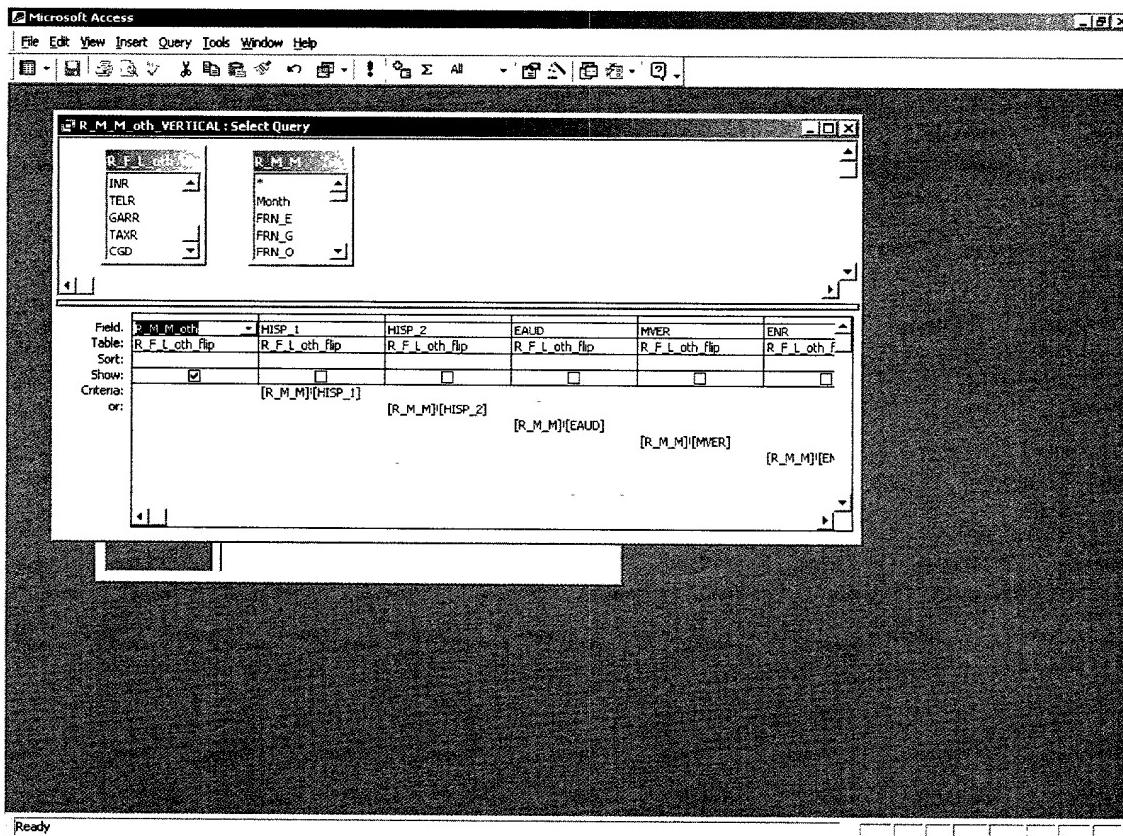


FIGURE 23
“Flipped Data”

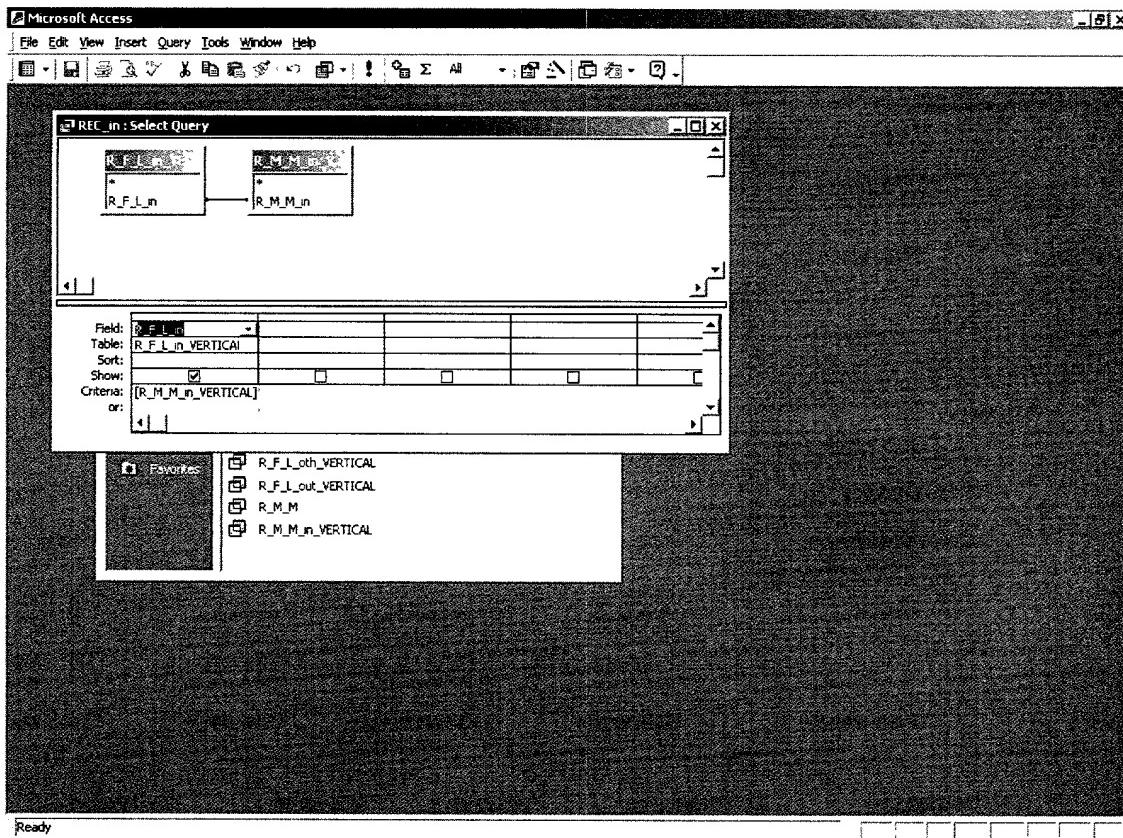
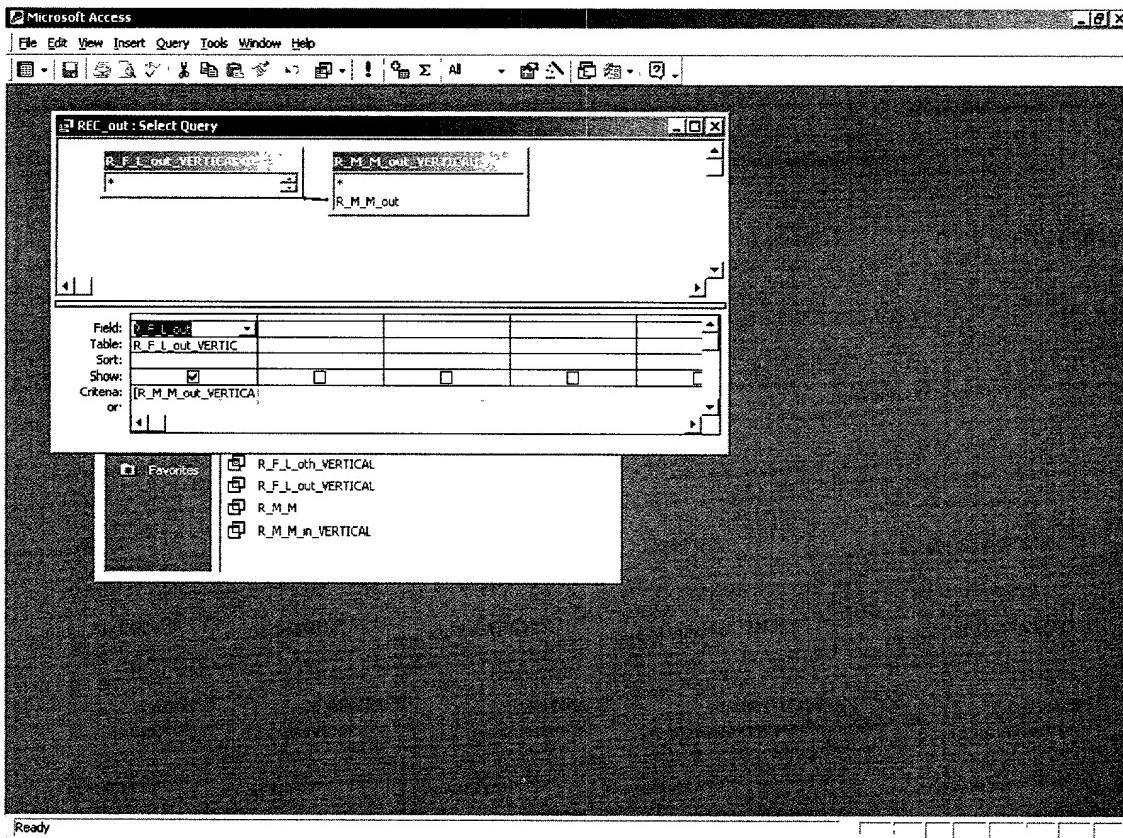


FIGURE 24

Tasks Currently Due

**FIGURE 25****Tasks Currently Due**

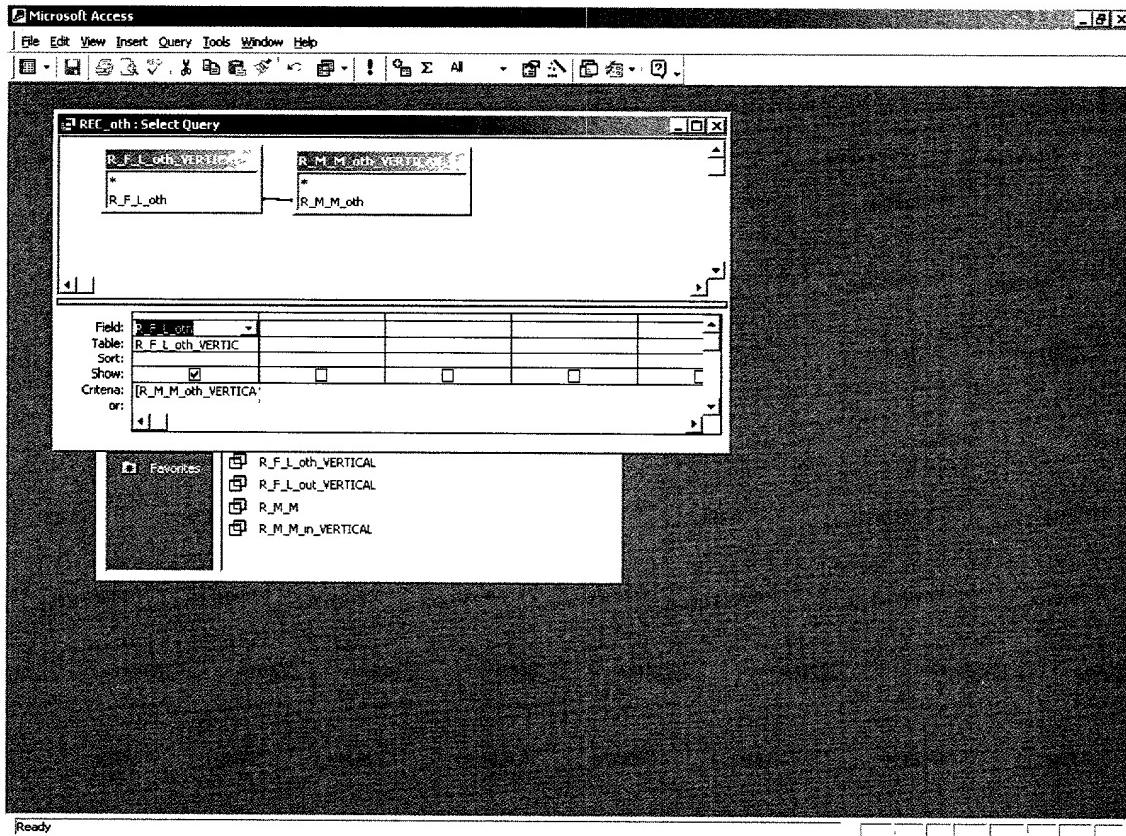


FIGURE 26

Tasks Currently Due

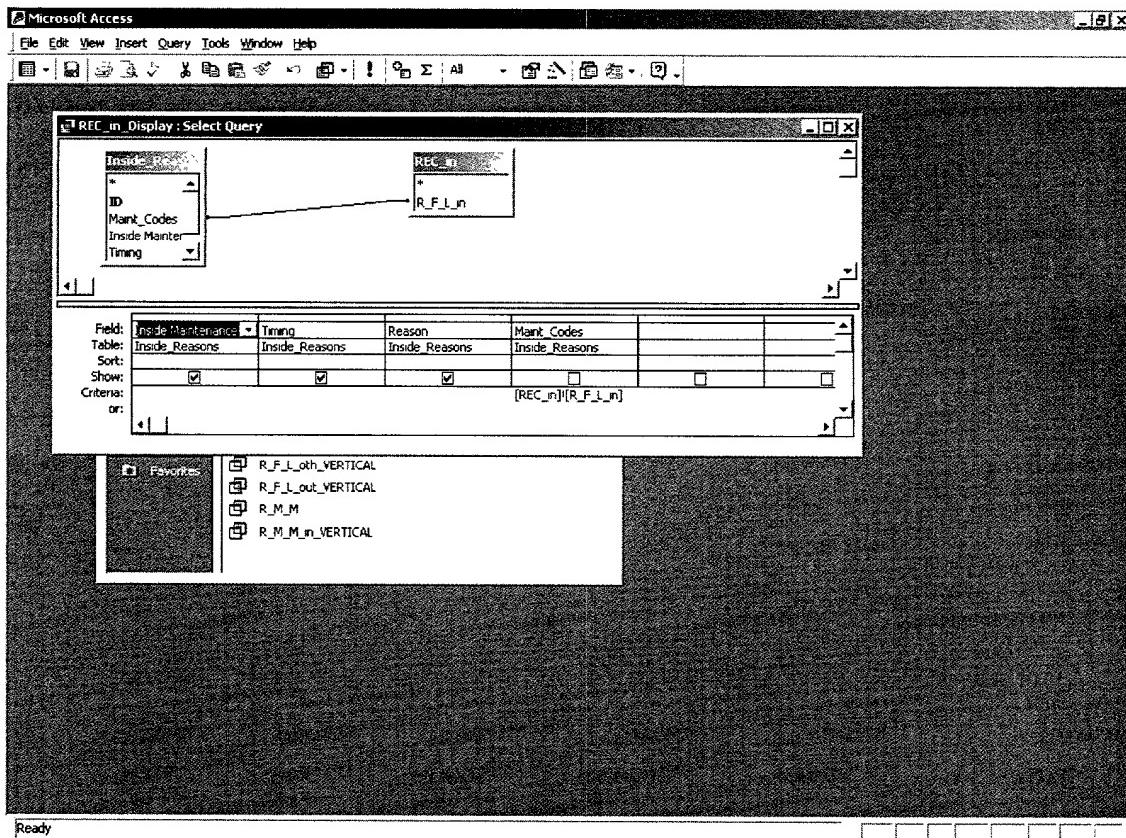


FIGURE 27

Displays of Descriptions of Maintenance Tasks

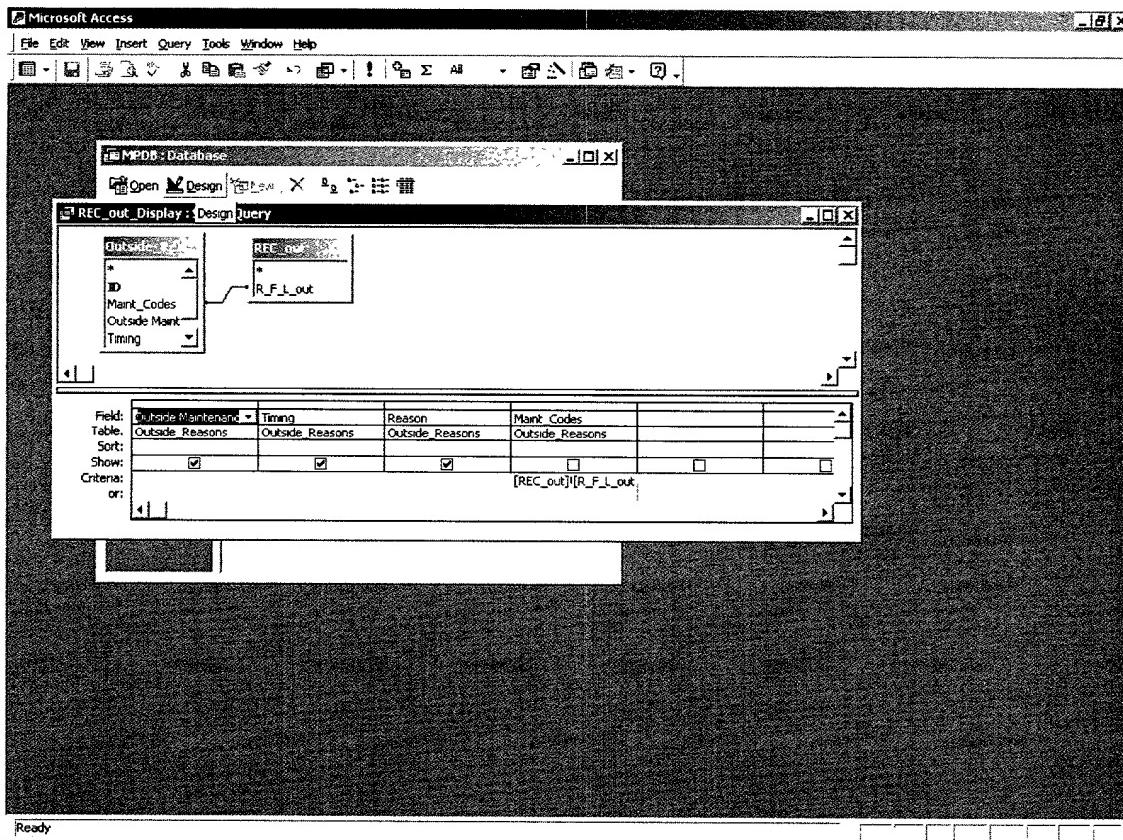


FIGURE 28

Displays of Descriptions of Maintenance Tasks

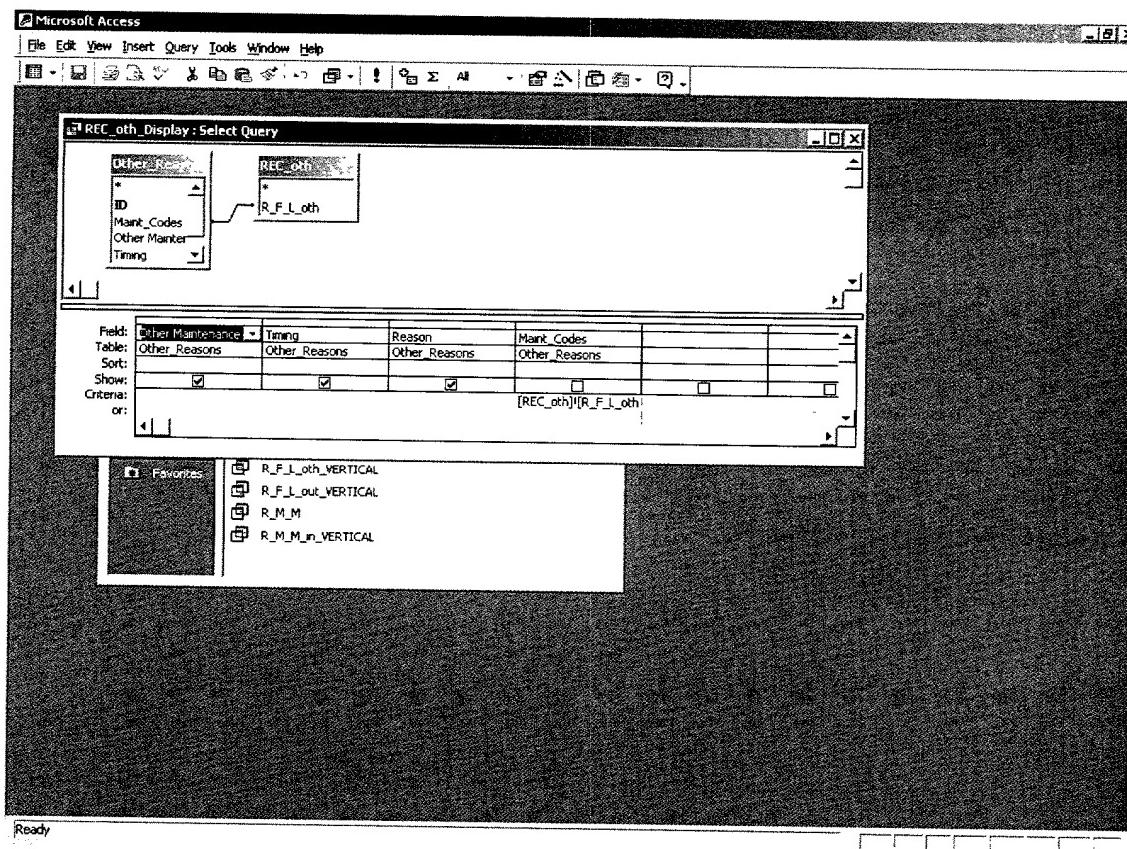


FIGURE 29
Displays of Descriptions of Maintenance Tasks